

ACC N 16003096

SOURCE CODE IR 5151/63/000 15/0267/0273

AUTHOR: Zhemkov, L. I.

5
B+1

ORG: None

TITLE: Application of the Maupertius principle to an investigation of nonlinear heat conduction problems

SOURCE: Kuybyshev. Aviatsionnyy institut, Trudy. no. 15, pt. 2, 1963. Doklady kustovoy nauchno-tekhnicheskoy konferentsii po voprosam mekhaniki zhidkosti i gaza (Reports of the Joint scientific-technical conference on problems of the mechanics of liquid and gas), 267-273

TOPIC TAGS: heat conduction, nonlinear equation, Maupertius principle, Fourier analysis

ABSTRACT: The article considers application of the Maupertius principle (the principle of least action) to the laws governing heat transfer in systems with varying thermophysical properties. It treats both the linear and the nonlinear systems. Starting from the Fourier equations, it is established mathematically that the Maupertius principle permits a basic approach to the solution of various heat conductivity problems. Linearization of the problem for the region of stabilized heat transfer is confirmed analytically using the Maupertius principle. Similarity

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ACC NR. AT6003096

conditions are established, with stabilized heat transfer, for the nonlinear case. Experimental data are adduced to confirm the deductions made on the basis of the Maupertius principle. Orig. art. has: 17 formulas and 2 figures.

JS
Card 2/2

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002064710017-3

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CIA-RDP86-00513R002064710017-3"

exchange. An illustrated analog function makes possible a rapid analysis of the
process of root location.

ZHEMKOVA, A.P.; ANICHKOV, N.N., akademik.

Histological structure of hemochorial placentas in rodents. Dokl. AN SSSR
90 no.4:663-665 Je '53. (MLRA 6:5)

1. Akademiya Nauk SSSR (for Anichkov). 2. Institut eksperimental'noy me-
ditsiny Akademii meditsinskikh nauk SSSR (for Zhenkova).
(Placenta) (Rodentia)

ЖЕНКОВА, А. П.

Мбр., Div. Exptl. Histology, Inst. Expl. Med., Dept. Medico-Biol. Sci., Acad. Med. Sci.,
-c1948-c49-.

"Changes in the Epithelium of A Rabbit's Womb during Pregnancy,"

Dok. AN, 63, No. 5, 1948;

"The Histogenesis of 'Monster' Cells in the Womb of a Pregnant Rabbit,"

ibid., 66, No. 6, 1949.

GTRSP Vol. 5--No. 1 Jan. 1952

Wahny

Zheinkova, Z.P. (Institute of Experimental Medicine, U.S.S.R. Academy of Medical Sciences).
The development of the placenta sections of the womb of a rabbit and their relation to the
embryonic tissues, 1017-20

Akademiya Nauk, S.S.S R., Doklady Vol. 78, No. 2

Application of isotopic phosphorus to the histochemical investigation of placenta. *L. P. Zhurkova Arkh Anat. Gistol. i Embriol. 31, No. 2, 64-7 (1954); Referat Zhurkova, Khim. 1954, No. 40-43* -- The metabolism of P in placenta, uterus, and embryos of rabbit at different stages of development was investigated with P³² and the following method. One day after mating the female rabbits were mated to pregnant rabbits. Termination of pregnancy was performed during the period of implantation of the embryo in the uterus. The placenta and embryos were removed and investigated by the method of autoradiography. The results of the investigation are presented in the following table.

1

Card

Authors : Zhemkova, L. P.

Title : ~~Connection between functional activity and position of the body in~~
Connection between functional activity and position of the body in

Periodical :

Abstract :

ZHENKOVA, Z. P.: "The histological structure of the trophoblast of certain rodents and man." Acad Med Sci USSR. Inst of Experimental Medicine. Department of Histology. Leningrad, 1956. (Dissertation for the Degree of Doctor in Medical Sciences)

So: Knizhnaya letopis' No 38, 1956. Moscow

ZHEMKOVA, Z.P.

Development and functional importance of the anatomical structures
of foetal placenta in the rabbit. Dokl. AN SSSR 106 no. 3:541-544
Ja '56. (MIRA 9:6)

1. Institut eksperimental'noy meditsiny Akademii meditsinskikh nauk
SSSR. Predstavleno akademikom N.N. Anichkovym.
(PLACENTA)

ZHEMKOVA, Z.P.

AUTHOR
TITLE

ZHEMKOVA Z.P.

20-5-54/67

Histological Structure of Trophoblast of smooth Chorion in Man. (Gistologicheskoye stroeniye trofoblata gladkogo khoriona u cheloveka.- Russian)

PERIODICAL

Doklady Akademii Nauk SSSR 1957, Vol 113, Nr 5, pp 1140-1142 (U.S.S.R.)

ABSTRACT

In older literature we can find information that the smooth chorion in man keeps its epithelial covering till the end of pregnancy. Later on the authors say that the covering disappears from the surface of the chorion during the first half of pregnancy. This was to be proved in the present work, i.e. the structure of the trophoblast on the surface of the smooth chorion was to be investigated and its functional importance was to be explained. The material was from embryos of the 19th-40th week. In the second half of pregnancy the smooth chorion becomes completely adherent to the uterine wall in consequence of the complete disappearance of the capsular decidua. The connective tissue substance of the smooth chorion and the amnion are located immediately upon each other. Neither of these coverings contains any vessels of the embryo in the parts outside placenta. The cellular trophoblast exists in the foetal membranes of man on the surface of the smooth chorion as a

CARD 1/2

Histological Structure of Trophoblast of smooth Chorion in Man.

20-5-54/67

completely viable compound epithelium till the end of pregnancy (contrary to what happens with some rodents).

Like the placenta, it establishes connection with the neighbouring matrix. The phenomena of proliferation and the capability of its elements to grow actively into the lower based matrix make it probable that these tissues assimilate and that they take part in the histological nutrition of the amnion and by its help also in that of the embryo. The disappearance of the capsular decidua is apparently not only dependent on mechanical reasons (expansion, pressure, etc.) but also on an active participation of the trophoblast outside the placenta, which covers the smooth chorion.

(3 illustrations on 1 page, 5 citations from Slavic publications)

ASSOCIATION: Institute for Experimental Medicine of the Academy of Science of the USSR.

SUBMITTED: 2.1. 1957

PRESENTED BY: N.N. ANICHKOV, Member of Academy.

AVAILABLE: Library of Congress.

CARD 2/2

Земкова, *Excerpta Medica* Sec.10 Vol.11/7 Obstetrics and

Z.P. Gynaecology July 58

1041. TROPHOBLAST PROLIFERATION IN THE FIBRINOID SUBSTANCE OF THE HUMAN PLACENTA (Russian text) - Zhemkova Z. P. - DOKLADY AKADEMII NAUK SSSR 1957, 114/4 (893-895) Illus. 4

In various periods of pregnancy sections of the human placenta (abortion material) were fixed in Carnoy's and other fluids and stained with azure-eosin, iron haematoxylin and tested for RNA after Brachet's method. In the early part of pregnancy the placenta contains some fibrillary substances in the places of origin of villi and in the so-called cellular nodules. In the second half of pregnancy the quantity of fibrils increases; they are deposited on the surfaces of villi. Frequently they form clusters or bridges which stick to neighbouring villi. Such forms of fibrinoid deposition limit the physiological activity on the surfaces of villi. The trophoblast cells are able to penetrate the clusters of fibrinoid. These may be considered as the factor causing a proliferative growth of the trophoblast.

Godlewski - Gliwicé (I, 10)

ZHEMKOVA, Z.P. (Leningrad, K-51, Bolosostrovskaya ul., 39, korp. 7 kv.
30)

Hemochorial type of placenta in dogs. ~~AMN~~ anat., g.1st. 1
embr. 44 no.4:64-72 Ap '63. (MIRA 17:6)

1. Laboratoriya embriologii (zav. - chlen-korrespondent AMN SSSR
prof. P.G. Svetlov) Instituta eksperimental'noy meditsiny AMN
SSSR, Leningrad.

ZHEMKOVA, Z.P.

Origin of Cetacea. Zool.zhur. 44 no.10:1546-1552 '65.

(MIRA 18:11)

1. Otdel embriologii Instituta eksperimental'noy meditsiny
AMN SSSR, Leningrad.

TOPCHIEVA, O.I.; ZHENKOVA, Z.P.

Characteristics of the structure of the human placenta in prolonged pregnancy. Akush. i gin. 40 no.5:54-57 8-0 '64. (MIRA 18:5)

1. Kafedra akusherstva i ginekologii (zav. - prof. I.I.Yakovlev)
I Leningradskogo meditsinskogo instituta i otdel embriologii In-
stituta eksperimental'noy meditsiny (zav. - chlen-korrespondent
AMN SSSR prof. P.G.Svetlov) AMN SSSR, Leningrad.

ZHEMKOVA, Z.P.; PERUMOVA, N.D.

Assimilation of different isotopes by the organs of animals
in relation to their species, age and individual properties
according to data of contact radiography. Trudy Inst. onk.
AMN SSSR no.3:201-213 '60 (MIRA 16:12)

1. Radiyevaya laboratoriya (zav. - doktor med. nauk. N.D.
Perumova) Instituta onkologii AMN SSSR.

KLEYNENBERG Sergey Yevgen'yevich; YABLOKOV, Aleksey Vladimirovich;
BEL'KOLICH, Vsevolod Mikhaylovic ; TARASEVICH, Mariya
Nikolayevna; Prinimali uchastiye: DELYAMURE, S.L.;
ZHEMKOVA, Z.P.; MAKAROV, B.M., red.

[Beluga; a monographic study on the species] Belukha; opyt
monograficheskogo issledovaniia vida. [By] S.E.Kleinenberg i
dr. Moskva, Izd-vo "Nauka," 1964. 455 p. (MIRA 17:4)

ZHEMKOVA, Z.P.

Hemochorial type of placenta in the mink (*Mustela vison*). Dokl. AN
SSSR 149 no.2:475-477 Mr '63. (MIRA 16:3)

1. Institut eksperimental'noy meditsiny AMN SSSR. Predstavleno
akademikom N.N. Anichkovym.

(PLACENTA) (MINKS)

ZHEMKOVA. Z.P.

Sexuated chromatin in the placenta of the cat and its significance
in determining the type of the animal. Dokl. AN SSSR 136
no.6:1459-1462 F '61. (MIRA 14:3)

1. Institut eksperimental'noy meditsiny AMN SSSR. Predstavleno
akademikom N.N. Anichkovym.

(CHROMATIN)
(PLACENTA)
(CATS)

ZHEMKOVA, Z.P. (Leningrad P-22, Bol'shoy prospekt, 104, kv.1)

Sex chromatin in the human placenta. Arkh.anat.gist,i embr. 39
no.9:24-32 S '60. (MIRA 14:1)

1. Laboratoriya embriologii (zav. - chlen-korrespondent AMN SSSR,
prof. P.G.Svetlov) Instituta eksperimental'noy meditsiny AMN SSSR.
(PLACENTA) (CHROMOSOMES)

USSR/Human and Animal Morphology - (Normal and Pathological)
Reproductive System.

S

Abs Jour : Ref Zhur Biol., No 6, 1959, 26204

Author : Zhenkova, Z.P.

Inst : Academy of Sciences USSR

Title : On the Problem of Type of Cat's Placenta

Orig Pub : Dokl. AN SSSR, 1958, 122, No 3, 500-503

Abstract : No abstract.

Card 1/1

SOV/20-114-4-58/63

AUTHOR: Zhemkova, Z. P.

TITLE: On Trophoblast Proliferations in the Fibrinoid Substance of the Human Placenta (O razrastaniyakh trofoblata v fibrinoidnom veshchestve platsenty cheloveka)

PERIODICAL: Doklady AN SSSR, 1957, Vol. 114, Nr 4, pp. 893 - 895 (USSR)

ABSTRACT: There is no uniform opinion on the above-mentioned proliferations and on the origin of the fibrinoid. The present paper is devoted to the changes occurring in the plasmoidal and cellulous layers of the villous trophoblast in the second half of pregnancy when they are surrounded by fibrinoid substances. 50 placentas from premature births (18th - 34th week of pregnancy) as well as from normal births were investigated. For the purpose of following the dynamics of the accumulation of the fibrinoid substance preparations from 40 placentas of the first half of pregnancy (from the 7th week) were examined. Fibrinoid substance already occurs in the placenta in early stages of development. In the second half of pregnancy its quantity increases. It settles on the surface of the villi, on the choroid and basal lamellae. Thereby a large part of the surface of villi is excluded from the exchange of substance

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SOV/20-114-4-58/63

On Trophoblast Proliferations in the Fibrinoid Substance of the Human Placenta

between the blood of the mother and of the embryo. A cytological and histological description of the villi and the trophoblast is given. In the second half of pregnancy the trophoblast-cells actively settled the fibrinoid masses in all placentas studied. There the cells find a good nutrient substratum and form a peculiar tissue-culture in the placenta. The trophoblast-structure is determined in various places of the human amniotic sac by its interrelations with the neighboring tissues. In the placenta, where the trophoblast is washed round by a liquid medium (mother's blood) a plasmodium forms on its free surface. On the boundary with the decidual tissue, e.g. in the place where the villi are fastened and in the domain of the smooth chorion, trophoblast has a cellulose structure. The elements of the trophoblast-proliferations which develop by the connection of the cellulose trophoblast with the fibrinoid are capable of proliferation. The cellulose trophoblast has no free surface. The plasmodial trophoblast has other peculiarities in order to maintain its usual morphological and functional properties it needs the contact with the mother's blood. When it unites with the decidual tissue or with the fibrinoid, it is subject to necrobiosis and disappears. To take it strictly, the trophoblast does not fit into the usual histological classification

Card 2/3

SOV/20-114-4-58/63
On Trophoblast Proliferations in the Fibrinoid Substance of the Human Placenta

which only provides for 4 groups of tissue. After having in the course of phylogenesis developed from an ectodermal germ it acquires quite peculiar and in individual sections unequal properties of a special provisional tissue. The trophoblast represents the embryonic part of the placenta which guarantees the exchange of substance between the organisms of the mother and the embryo. It would be expedient to raise it from the standpoint of the phylogenetic tissue-system (reference 12) to a special type of tissue. There are 4 figures, and 12 references, 1 of which is Soviet.

ASSOCIATION: Institute for Experimental Medicine of the Academy of Medical Sciences of the USSR (Institut eksperimental'noy meditsiny Akademii meditsinskikh nauk SSSR)

PRESENTED: February 11, 1957, by N. N. Anichkov, Academician

SUBMITTED: February 4, 1957

Card 3/3

S-2

USSR / Human and Animal Morphology, Normal and Pathological.
Nervous System: Central Nervous System.

Abs Jour : Ref Zhur - Biol., No 18, 1958, No 83643

Author : Zhenkova, Z. P.; Manina, A. A.; Orlova, O. A.
Inst : Institute of Experimental Medicine, Academy of Medical
Sciences, USSR.

Title : Histochemical Changes in Cerebral Cells in Various Functional and Organic Lesions in Rats.

Orig Pub : Ezhegodnik. In-t eksperim. med. akad. med. nauk SSSR, 1955,
L., 1956, 380-385

Abstract : By means of histochemical and radiographic techniques (utilization of methionine, under designation of S 35), a study was made of the pyramidal cells of the cortex and Ammon's horn, Purkin cells, cells of the motor nuclei X and XII of the nerves of the medulla oblongata of 85 white rats with functional and traumatic lesions of CNS. Variations were

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Human and Animal Morphology, Normal and Pathological.
Nervous System: Central Nervous System.
Abs Jour : Ref Zhur - Biol., No 18, 1958, No 83643
APPROVED FOR RELEASE: 03/15/2001

S-2

noted in the content of the nucleic acids in the cytoplasm and the nuclei of the nerve cells, and changes in the character of the chromatophilic substance. The X-ray technique reveals some difference in the regeneration rate of the albumins in the cortex of the large hemispheres and of the cerebellum in functional disturbances of CNS compared with the control. The regeneration rate of albumins in traumatic lesions of the cerebral cortex depends upon the operative time intervals; in the first days after the operation there is no difference between the experimental and the control rats; within one month the regeneration rate of albumins has increased in the operated-on rats, while within 12 months it is lower than in the control animals. --
E. N. Popova.

Card 2/2

AUTHOR: ~~Zhenkova, Z. P.~~ SOV/20-122-3-49/57

TITLE: On the Problem of the Type of Feline Placenta (K voprosu o tipe platsenty koshki)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 122, Nr 3, pp 500-503 (USSR)

ABSTRACT: In the present paper the author investigated the trophoblast in the feline placenta, which, according to existing data (Refs 1-10), belongs to the endotheliochoreal type, similar to those of other predacious animals. 80 cats at different stages of pregnancy (beginning with the 11th day) were investigated. The whole course of changes during pregnancy is described in detail, and is shown in figure 1-4. The investigation of the feline placenta in several stages showed some peculiarities. In contrast to the common opinion it showed that the endothelium of the uterus vessels does not form part of the foetal placenta. It perishes during the first days of the formation of this placenta and disappears (as in rodents). The blood spaces of the foetal placenta are lined with cells of the trophoblast which change their form in the new surrounding of their existence. The big elements that are to be seen in the labyrinth and in the inter-

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On the Problem of the Type of Feline Placenta

SOV/20-122-3-49/57

layer of the placenta are in their external look very similar to the decidual cells, they are, however, trophoblastic and are not connective tissue cells (decidual, maternal), as some authors have maintained hitherto. In the foetal placenta of the cat the trophoblast is not only formed of cells at the place of contact with the tissues of the mucous membrane of the uterus but also at the places of contact with the maternal blood. The structureless substance occurring in the foetal placenta of the cat is no basic substance of the connective tissue of the uterus but is formed by trophoblast cells. The results obtained cause a revision of the problem if the feline placenta belongs to the endotheliochoreal type. Proceeding from what was said it may rather be assumed that it belongs to the hemochoreal type. There are 4 figures and 10 references, 0 of which is Soviet.

ASSOCIATION: Institut eksperimental'noy meditsiny Akademii meditsinskikh nauk SSSR (Institute of Experimental Medicine of the Academy of Medical Sciences, USSR)

PRESENTED: April 21, 1958, by N. N. Anichkov, Member, Academy of Sciences, USSR
Card 2/3

ZHEMKOVA, Z. P. Doc Med Sci -- (diss) "Histological Structure
of the Trophoblast in ^{Anten} ~~some~~ Rodents and ~~in~~ Man." Len, 1956.
49 pp 20 cm. (Academy of Medical Sciences USSR, Inst of
Experimental Medicine), ^{Dept of Histology} 150 copies (KL, 17-57, 98)

- 57 -

Zhemliczka, I.

CZECHOSLOVAKIA/Analytical Chemistry - Analysis of Inorganic Substances

E-2

Abs Jour : Ref Zhur - Khimiya, No 3, 1958, No 7651

Author : I. Zhemliczka, Vlashak. II. Sphachkova, Rmbeshka

Inst : Not Given

Title : The Semimicro Spectral Analysis of the Impurities Present in the Elements Found in Basement Clays Containing Titanium.

Orig Pub : Vest. Ustied. Ustavu geol. 1957, 32, No 3, 210-211; 211-212

Abstract : I. For the Analysis, synthetic standard mixtures are prepared from the oxides of Si, Al, Fe, Mn, the carbonates of Ca and Mg, and the phosphate of K. To the standards, TiO2 and V (in the form of NaVO3) are added in various ratios. The elements to be determined were introduced as solutions at concentrations approaching those of natural clays. The standards were ground in a mortar in a wet state. They were dried by an intermediate mixing. The results of the spectral analysis help to explain the migration of elements in basement clays, to establish their interrelation, which, in its turn, allows one to make a concrete conclusion in regard to

Card : 1/3

... exposure and the substance from the...
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... next to the...
... The analysis is made at

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CZECHOSLOVAKIA/Analytical Chemistry - Analysis of Inorganic Substances

E-2

Abs Jour : Ref Zhur - Khimiya, No 3, 1958, No 7651

the lines of Cr 2843.2; Mo 3170.3; Pb 2833.1; Sn 2840.0; Ga 2943.6; Co 3044.0; Ni 3050.8; V 3110.7; and Ti 2888.9. The calibration curves were plotted on the basis of the synthetic standards. The error of the determination is 30-50%.

ZHEMOCHKIN, B.N., prof.; PASHCHEVSKIY, D.P., dotsent; BERNSHTEYN, M.S., dotsent; NIKIFOROV, S.N., prof.; TOCHISKIY, V.F., dotsent [deceased]; VILKOV, G.N., red.izd-va; RUDAKOVA, N.I., tekhn.red.

[Course in structural mechanics] Kurs stroitel'noi mekhaniki. Pod obshchei red. B.N.Zhemochkina. Izd.2. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam. Pt.3. [Statics of structures] Statika sooruzhenii. 1959. 333 p. (MIRA 12:12)
(Structures, Theory of)

ZHEMOCHKIN, B.N., doktor tekhnicheskikh nauk, professor.

Laboratory experiments with pile models subjected to horizontal loads. Issl. po teor. sooruzh. no.4:275-284 '49. (MIRA 10:8)
(Mechanical models) (Piling (Civil engineering))

"Increasing the Accuracy of the Calculation of Beams on an Elastic Foundation,"
Issled. po Teorii Skoruzheniy, No 6, 1954, pp 289-312

A method is presented for the calculation of beams on a continuous elastic foundation in which the formation is regarded as a semispace or semiplane. The solution of the corresponding canonical system of equations is made more complex when there is a large number of unknowns (i.e., a large number of rods in the model.). The calculation is simplified by compressing the rods at points of greatest variation of the distribution of elastic reactions and by rarefying them where the reaction changes weakly. (RZhMekh, No 5, 1955)
SO: SumlNo. 713, 9 Nov 55

ZHEMOCHKIN, B.N., professor, doktor tekhnicheskikh nauk (Moscow)

Some notes on concentrated loads applied to the edge of semi-plane
plates. Issledovaniia po teorii soorushenii. Sbornik statei no.6:
469-477 '54. (MLRA 7:11)
(Structures, Theory of) (Strains and stresses) (Elastic
plates and shells)

SIDOBV, A.A., kandidat tekhnicheskikh nauk, redaktor; BLIZNYAK, Ye.V. doktor tekhnicheskikh nauk, professor; OLESHKEVICH, L.V., kandidat tekhnicheskikh nauk, dotsent; AKHUTIN, A.N., doktor tekhnicheskikh nauk, professor; BERKZINSKIY, A.R., doktor tekhnicheskikh nauk, professor; GRISHIN, M.M., doktor tekhnicheskikh nauk, professor; DZHUNKOVSKIY, E.N., doktor tekhnicheskikh nauk, professor; ZHEMOCHKIN, B.N., laureat Stalinskoy premii, doktor tekhnicheskikh nauk, professor; MIKAYLOV, K.A., doktor tekhnicheskikh nauk, professor; NICHIPEROVICH, A.A., doktor tekhnicheskikh nauk, professor; NESTERUK, F.Ya., doktor tekhnicheskikh nauk; NEDRIGA, V.P., kandidat tekhnicheskikh nauk; SAFONOV, P.V., inzhener; LATYSHENKOV, A.M., kandidat tekhnicheskikh nauk, dotsent, redaktor; MUROMOV, V.S., kandidat tekhnicheskikh nauk, dotsent, redaktor; BARSOV, M.V., inzhener, redaktor; MEYSTER, V.A., kandidat tekhnicheskikh nauk, redaktor; LIPKIND, M.V., kandidat tekhnicheskikh nauk, redaktor; LYAPICHEV, P.A., kandidat tekhnicheskikh nauk, redaktor; KARPOV, I.M., kandidat tekhnicheskikh nauk, dotsent, redaktor; REPKIN, V.P., inzhener, redaktor; MEDVEDEV, L.Ya., tekhnicheskiy redaktor.

[Hydraulic engineering handbook] Spravochnik po gidrotekhnike, Moskva, Gos.izd-vo lit-ry, po strcit. i arkhiv. 1955. 828 p.

(MLRA 8:10)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut vodosnabzheniya, kanalizatsii, gidrotekhnicheskikh sooruzheniy i inzhenernoy gidrogeologii. 2. Zasluzhenyy deyatel' nauki i

(Continued on next card)

SIDOROV, A.A., kandidat tekhnicheskikh nauk, redaktor, and others... (Card 2)

[Hydraulic engineering handbook] Spravochnik to gidrotekhnike,
Moskva, Gos.izd-vo lit-ry, po stroit i arkhitekt. 1955. 828 p.
(Card 2) (MLRA 8:10)

2. Zasluzhenyy deyatel' nauki i tekhniki RSFSR (for Blisnyak)
3. Deystvitel'nyy chlen Akademii nauk AzSSR (for Mikaylov)
(Hydraulic engineering)

Zhemochkin, B. N.

AUTHOR: Zhemochkin, B.N., Doctor of Technical Sciences, Prof. Call Nr: Not given

TITLE: Theory of Elasticity (Teoriya uprugosti)

PUB. DATA: Gosstroyizdat, Moscow, 1957, 256 pp., 20,000 copies

ORIG. AGENCY: None given

EDITOR: Ed. of Publ. House: Kotik, B.A.; Tech. Ed: Guseva, S.S.

PURPOSE: The book was approved by the Ministry of Higher Education of the USSR as a textbook for civil engineering schools.. (The first edition, 1948, while intended for civil engineers, was not a textbook. This circumstance made extensive revision necessary.) The book may also be helpful for design engineers in their work.

COVERAGE: This book presents a course in the theory of elasticity, illustrated by a large number of examples from civil engineering practice. The author expresses thanks for assistance in revision to M.S. Bernshteyn, Docent.

Card 1/7

Theory of Elasticity (Cont.)

Call Nr: Not given

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Theory of Elasticity (Cont.)

Call Nr: Not given

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Theory of Elasticity (Cont.)

Call Nr: Not given

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Call Nr: Not given

Theory of Elasticity (Cont.)

Ch. IV. Three-dimensional Problem

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AVAILABLE: Library of Congress
Card 7/7

ZHEMOCHKIN, Boris Nikolayevich [1887-1961], prof.; SINITSYN, A.P.,
prof.; GORYACHEVA, T.V., red.izd-va; OSENKO, L.M., tekhn.red.

[Practical methods of designing foundation beams and slabs on
an elastic foundation] Prakticheskie metody rascheta fundamentnykh
balok i plit na uprugom osnovanii. 2.isd., perer. i dop. Moskva,
Gosstroizdat, 1962. 238 p. (MIRA 15:5)
(Foundations)

ZHEMOCHKIN, Boris Nikolayevich, doktor tekhn. nauk, prof.;
SMITKO, I.K., doktor tekhn.nauk, prof., nauchn. red.

[Design of frames] Raschet ram. Moskva, Stroizdat, 1965.
405 p. (MIRA 18:10)

VOLKOV, V.A., inzhener.; ZHEMOCHKIN, D.N., kandidat tekhnicheskikh nauk.

[Tanner's handbook; vol. 1] Spravochnik koshevnika. Moskva, Gos.
izd-vo Ministerstva legkoi i pishchevoi promyshl., 1953. 450 p.
(MLRA 6s12)
(Leather)

ZHEMOCHKIN, D.N., kand. tekhn. nauk, dotsent

Technical and economic comparison of the variants of the shifting
of large-assortment conveyors in the production of chrome leather.
Nauch. trudy MTILP no.29:62-98 '64. (MIRA 18:4)

1. Kafedra organizatsii proizvodstva i ekonomiki legkoy promyshlen-
nosti Moskovskogo tekhnologicheskogo instituta legkoy promyshlen-
nosti.

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002064710017-3

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002064710017-3"

ZHEMOCHKIN, D. N.; YELISEYEV, V. I.

Dyes and Dyeing - Leather

New development in coating leather with dyes. Leg. prom. 12 No. 9, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December ¹⁹⁵²~~1953~~, Uncl.

1ST AND 2ND CROSS PROCESSES AND PROPERTIES -108

9

Substitutes for vegetable-tanning substances. D. N. Zhenochkin. *Lebays Prom.* 2, No. 7/8, 11-12(1012). Fe salts can replace nearly 1/3 of Cr salts in the tanning of soft leathers, and sulfite cellulose ext. in the tanning of hard leathers. W. R. Henn

ASB-31A METALLURGICAL LITERATURE CLASSIFICATION

INTERNAL INDEX

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VOLKOV, V.A., inzhener, redaktor; ZHEMOCHKIN, D.N., kandidat tekhnicheskikh nauk, redaktor; PLEMYANNIKOV, M.N., redaktor; SMOL'YAKOVA, M.V., tekhnicheskii redaktor

[Handbook for leather industry workers] Spravochnik kozhevnika. Moskva, Gos. nauchno-tekhn. izd-vo Ministerstva promyshlennykh tovarov shirokogo potrebleniia SSSR. Vol. 3. 1954. 430 p.
(Leather industry) (MIRA 8:4)

ZHEMOCHKIN, G.; ZOTOV, I., master sporta

Improving shock absorption in the M-72 motorcycle. Za rul.
18 no.5:20-21 My '60. (MIRA 14:3)

1. Mekhanik motoseksii Moskovskogo inzhenerno-fizicheskogo
instituta (for Zhemochkin).
(Motorcycles—Shock absorbers)

ZHEMOCHKIN, G., mekhanik

Cold weather, snow and the reliability of racing motorcycles.
Za rul. 19 no.11:20-21 N '61. (MIRA 14:12)

1. Motosektsiya Moskovskogo inzh. kogo instituta.
(Motorcycles—Cold weather condition)

ZHEMOCHKIN, G., mekhanik

For those who drive heavy motorcycles. Za rul. 20 no.9:22-23
S '62. (MIRA 15:9)
(Motorcycles)

NIKOLAYEV, V.; KROSHNEV, A. (Temir-Tau); VLADOV, P., inzh. (Ostrogozhsk,
Voronezhskoy obl.); BOGDANOV, A. (Arkhangel'skaya obl.);
ZHEMOCHKIN, G.; RENKOV, V. (Riga); KALININ, V. (Riga);
QVASALIYA, Sh.; DIDIK, A. (Lakhdenpohk'ya, Karel'skoy ASSR);
SINEL'NIKOV, A.

Advice of specialists. Za rul. 20 no.12:20-21 D '62. (MIRA 15:12)
(Motor vehicles)

1ST AND 2ND COPIES

PROCESSES) AND PROPERTIES INDEX

27

Ca

The utilization of the permanent gases from the dry distillation of wood for organic synthesis. II. The composition and yield of permanent gases produced during distillation. M. N. Zhemochkin, E. I. Lapshin, V. N. Troitskaya and A. I. Zarakovskaya. *Leningrad. Prom. Khim. Referat. Zhur.* 1939, No. 6, 33-40; *Khim. Referat. Zhur.* 1939, No. 12, 103; cf. C. A. 34, 5279.—The yield of the gases under the conditions of the expts. was 43.8 cu. m. per cu. m. of wood. The av. vol. compn. of the gases in percentage is CO, 45.5, C₂H₄, 2.2, O₂, 0.3, CO₂, 27.5, H₂, 4.8, CH₄, 15.5 and N₂, 1.3. The av. content of water vapor in the gas during the satisfactory performance of the retort is 20 g./cu. m.; it can reach 60-100 g./cu. m. in forced operation. W. R. Henn

INTERNAL INDEX

COMMON ELEMENTS

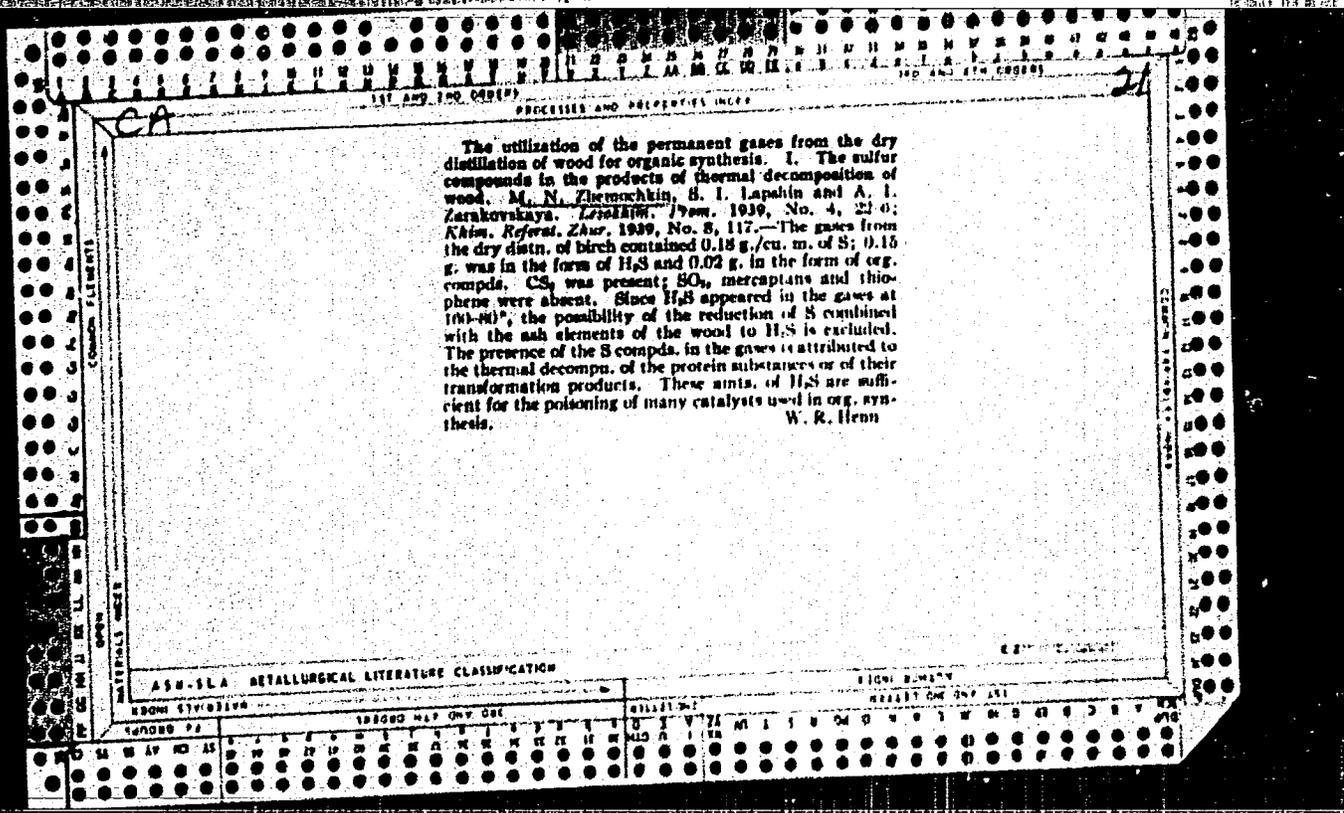
COMMON VARIABLE INDEX

ABB-31A METALLURGICAL LITERATURE CLASSIFICATION

FROM SOURCE

COLLECTION

DEALY ONE ONE 121



PROCESSES AND PROPERTIES

21

ca

The utilization of the permanent gases from the dry distillation of wood for organic synthesis. III. M. N. Zhemochkin, *Lesokhim. Prom.* 2, No. 9, 12-14 (1930); *U. S. A. 33, 878*.--The permanent gases are now used for heating. This is uneconomical owing to the low heating value (2,800 cal./cu. m.) and high CO₂ content (50%). By passing the gases and steam over Ni catalysts at 300° (CH₄ plus CO₂ or H₂O giving CO and H₂) and 500° (CO + H₂O = CO₂ + H₂) a gas is obtained which after cooling and removal of CO₂ can be used directly for methanol synthesis. IV. Conversion of the permanent gases. M. N. Zhemochkin, S. I. Lapshin and F. B. Troitskaya. *Ibid.* No. 10, 11-20.--The best conditions for the first conversion are: Ni catalyst, temp. of 300°, vol. velocity of 200 and a H₂O content of 0.3 cu. m./cu. m. The product contained CO₂ 27, CO 35, H₂ 33 and N 5%. For the second stage (formation of gas with a CO/H₂ ratio of 1/2) a vol. velocity of 200, temp. of 500° and a H₂O content of 0.6 cu. m./cu. m. is used. Through *Chem. Zentr.* 1940, I, 1106. H. B. Wirth

METALLURGICAL LITERATURE CLASSIFICATION

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METALLURGICAL LITERATURE CLASSIFICATION

1100 204100

111111 ON 000 101

KATSEVMAN, L.V.; VOKHOMSKIY, M.N., inzh., otv. red.; DIKHTER, Ya.Ye., red.; DYUBEK, L.K., red.; ZHEMOCHKINA, V.B., red.; ITTSIGSON, F.L., inzh., red.; KASTEL', I.N., kand. arkhitektury, red.; CHIZH-DEMIDOVICH, V.V., red.; SHEVCHENKO, V.A., inzh., red.

[Collection of materials on results of research and experimental work in 1960-1961] Sbornik materialov po rezul'tatam nauchno-issledovatel'skikh i eksperimental'nykh rabot rabot 1960-1961 gg. Moskva, 1961. 142 p. (MIRA 15:10)

1. Moscow. Institut tipovogo i eksperimental'nogo proyektirovaniya.

(Building research)

ZHEMOYDO, G.K., inzh.; KUROCHKIN, V.I., inzh.

Reinforced concrete poles for high-voltage transmission lines.
Bet. 1 shel.-bet. no.6:252-253 Je '57. (MIRA 10:11)
(Electric lines--Poles)

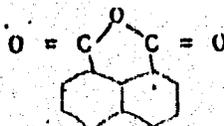
S/204/62/002/005/005/007
E075/E136

AUTHORS: Kamneva, A.I., Muzychenko, L.A., Wang Chien-Fin,
Zhemzhur, A.I., and Zakharova, V.I.

TITLE: Oxidation of acenaphthene with the electrochemical
regeneration of catalyst

PERIODICAL: Neftekhimiya, v.2, no.5, 1962, 756-759

TEXT: The synthesis of



was achieved by oxidizing with O a 10% acenaphthene solution containing 5% KCOOCH₃, 1% Mn(COOCH₃)₂, 42% N, N'-dimethylformamide and 42% glacial acetic acid at 60 °C for 3 hours. The oxidation proceeded satisfactorily only when the catalyst was regenerated by passing 1.5 A current through the solution. The product melting at 270 °C precipitated out and contained 73% of acidic compounds and some carbonyl compounds. It was postulated that the oxidation proceeds as follows:

Card 1/2

KAMNEVA, A.I.; MIZYCHENKO, L.A.; VAN TSZYAN'-FYN [Wang Chien-fang]; ZHEZHUR,
A.I.; ZAKHAROVA, V.I.

Oxidation of acenaphthene with electrochemical regeneration of the
catalyst. Neftekhimiia 2 no.5:756-759 S-0 '62. (MIRA 16:1)

1. Moskovskiy ordena Lenina khimiko-tehnologicheskii institut
im. D.I.Mendeleeva, kafedra khimicheskoy tekhnologii topliva.
(Acenaphthene) (Oxidation) (Catalysts)

Special Agent in Charge

SUBMITTED: 27 Nov 62

SUB CODE: CH, FL

CLASSIFICATION

NO REF SOURCE

FILE

OTHER - 101

Cara 2/2

CZECHOSLOVAKIA/Cultivated Plants. Potatoes. Vegetables. Melons. M

Abs Jour: Ref Zhur-Biol., No 5, 1958, 20371.

Author : J. Zhenata

Inst : Not given

Title : Common Chicory. (*Cichorium intybus* var. *foliosum*) (Tsikoriy obyknovennyy ((*Cichorium intybus* var. *foliosum*)))

Orig Pub: Ovocnar a zelinar, 1957, 5, No 1, 25-26.

Abstract: No abstract.

Card : 1/1

MORGUNOV, N.I., kandidat sel'skokhozyaystvennykh nauk; LAPTEV, P.I., kandidat ekonomicheskikh nauk; ~~ZHENATOV, A.P.~~

Narrow-strip plowing in regions of excessive moisture. Zemledelie 4
no.7:67-69 J1 '56. (MIRA 9:9)

1. Kaliningradskaya opytno-meliorativnaya stantsiya.
(Plowing)

Country : USSR
Category ; Soil Science. Fertilizers. Organic Fertilizers. J
Abs Jour : RZhBiol., No 6, 1959, No 24663
Author : Zhenatov, A. P.; Rokhtanen, L. S.
Inst :
Title : Concerning the Economic Effectiveness of the Utilization of Peat as a Fertilizer.
Orig Pub : Udobreniye i urozhay, 1958, No. 8, 44-46
Abstract : No abstract.

Card : 1/1

57

GRIGORYAN, B.Sh.; ZHENCHUK, G.A.

Using the method of establishing an electromagnetic field to reveal the structure of the Dzhezkazgan-Sarysu trough. Razved. i okh. nedr 31 no.2:50-52 F '65.

(MIRA 18:3)

1. Dzhezkazganskaya geofizicheskaya ekspeditsiya.

ZHENDAREV, M.

Precast transformer substation. Na stroi: Ros. 4 no.1:10-11 Ja '63.
(MIRA 16'3)

1. Glavnyy energetik tresta Msshakhtostroy.
(Electric substations) (Buildings, Prefabricated)

ZHENDAREV, M.M.

ZHENDAREV, M.M., inzhener.

Outdoor 6--10 kv unit-type transformer substation. Prom.
energ. 11 no.11:23-25 N '56.

(MLRA 9:12)

1. Trest Mosshakhtostroy.
(Electric substations)

ZHENDAREV, M. M.

PA 50/49781

USSR/Mines
Power Supplies
Coal

May 49

Centralized Electric Power Supply of Mines With
Direct Current for the Feeding of Electric Loco-
motive Haulage, " M. M. Zhendarov, 2 1/2 pp

"Coal" No 5

Refers to results of operational tests which con-
firmed the economic value of a centralized DC power
supply, particularly for underground electric-
locomotive haulage. Claims this centralization
will give considerable economy in scarce equipment
such as mercury rectifiers, transformers, etc.
RND 50/49781

USSR/Mines

(Contd)

May 49

and effect great saving of electric power. Gives
two tables of test results.

RND

50/49781

ZHENDAREVA, Olga Grigor'yevna; MUKHINA, Zinaida Stepanovna;
KUNYAVSKAYA, T.M., red.; PUKHLIKOVA, N.A., tekhn. red.

[Methods of analyzing electroplating baths] Metody analiza gal'vanicheskikh vann. Moskva, Oborongiz, 1963.
269 p. (MIRA 16:10)

(Electroplating)

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ZHENDOVSKAYA

POLAND/Microbiology - Sanitation Microbiology.

F-4

Abs Jour : Ref Zhur - Biol., No 3, 1958, 9878

Author : Zhendovskaya

Inst : -

Title : The Nature of Organisms Liberated in "Flat-Sour" Spoilage of Vegetable Cannings.

Orig Pub : Przem. spozywczy, 1956, 10, No 12, 517-518

Abstract : Vegetable non-acid cannings (pH ~ 6) such as "green peas," "vegetable mixture" (peas and carrots), "kidney beans," etc. are often subjected to so-called flat-sour deterioration, i.e., they turn sour with manifestation of gas formation. The author isolated 17 strains of grampositive sporogenic anaerobic bacilli from such cannings, which often form short or long chains. Proteolytic properties were found only in 4 strains. Among carbohydrates decomposed most frequently are fructose and glucose, forming acid without gas. A smaller number of strains decomposed sucrose

Card 1/2

POLAND/Microbiology - Sanitation Microbiology

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002064710017-3

Abs Jour : Ref Zhur - Biol., No 3, 1958, 9878

and starch. Not one of the strains grew at 55°.

In cannings in glass containers live non-spore-bearing bacteria were found, which caused souring of the contents. This fact, evidently, is explained by a faulty hermetic seal and subsequent injection from the air.

Card 2/2

BEDRAN', Nikolay Gavrilovich; ZHENDRINSKIY, Andrey Pavlovich;
MIRONOVA, T.A., red.izd-va; LOMILINA, L.N., tekhn.red.

[Ejector-type flotation machine]Ezhektornaia flotatsionnaia
mashina. Moskva, Gosgortekhnizdat, 1962. 41 p.
(MIRA 15:11)

(Flotation--Equipment and supplies)

BEDRAN', N. G., kand. tekhn. nauk; ZHEMDRINSKIY, A. P., kand. tekhn.
nauk; VISHNEVSKIY, M. A., inzh.; PER'KOV, Yu. V., inzh.;
GRACHEV, A. I., inzh.; GORELIK, M. I., inzh.

Flotation of gas coals in the Dobropol'ye Central Concentra-
tion Plant. Ugol' Ukr.7 no.4:30-32 Ap '63.

(MIRA 16:4)

(Dobropol'ye—Flotation)

BEDRAN', N.G.; ZHENDRINSKIY, A.P.; KLASSEN, V.I.

Design characteristics and results of testing the new EFM-DGI flotation machine. Ugol' Ukr. 4 no.10:18-21 O '60. (MIRA 13:10)

1. Dnepropetrovskiy gornyy institut (for Bedran', Zhendrin'skiy).
2. Institut gornogo dela AN SSSR (for Klassen).
(Coal preparation--Equipment and supplies)
(Flotation--Equipment and supplies)

Zhendrinskiy, A.P.

68-7-2/16

AUTHORS: Bublikov, A.V., Klassen, V.I., Zhendrinskiy, A.P. and Kopychev, P.A.

TITLE: Pneumatic Flotation Machines. (Pnevmaticheskiye flotatsionnyye mashiny).

PERIODICAL: Koks i Khimiya, 1957, Nr 7, pp. 6-9 (USSR).

ABSTRACT: The development and testing of a pneumatic flotation machine for the flotation of coal slurries is described. In 1955 the collective of the Dneprodzerzhinsk Works in cooperation with the Dnepropetrovsk Mining Institute and the Mining Institute of the Academy of Science of the USSR designed and built a pneumatic flotation machine (a description and a diagram are given, Fig.1) which was tested on a flotation plant (Fig.2). The experimental results for the pneumatic machine are given in Table 1 and parallel results for a normal impeller machine in Table 2; a comparison of power consumption by the above two machines is given in Table 3. During testing, a number of design deficiencies were observed and a new machine was designed (shown in Fig.3). On the suggestion of V.I.Klassen, spraying of foam was included (spraying arrangement is shown in Fig.4). In 1956 three of these machines were built and included into the flotation train (Fig.5). Tests were carried out

Card
1/3

Pneumatic Flotation Machines.

68-7-2/16

under the following conditions: pulp density - 200 g/l, time of flotation - 6 min; absorption oil consumption - 3.5 kg/ton. The flotation results obtained on pneumatic and mechanical machines are given in Tables 4 and 5 respectively. Comparison of air and power consumption is given in Table 6. Flotation of fine slurries from the "circulating" water was also tested (Table 7). It is concluded that the pneumatic machines are suitable for the flotation of coal of less than 1 mm size from slurries. With spraying of foam from the initial slurry of 13-15% ash content, concentrates of 7.5-8% ash and tailings of 58-60% ash can be obtained. The throughput of pneumatic machines in its present stage of development is approximately the same as that of mechanical machines. The use of spraying of foam decreases the ash content of concentrates by 0.5-0.8%. In view of their simplicity, low costs and low power consumption, pneumatic machines are recommended for the flotation of coals of 1-0 mm size and particularly for 0.5-0 mm size.

Card
2/3

Pneumatic Flotation Machines.

68-7-2/16

There are 7 tables and 5 figures.

ASSOCIATIONS: Dneprodzerzhinsk Coke Oven Works (Dneprodzerzhinskiy Koksokhimicheskiy Zavod), IGD AN SSSR, and Dnepropetrovsk Mining Institute (Dnepropetrovskiy Gornyy Institut).

AVAILABLE: Library of Congress

Card

3/3

KLASSEN, V.I.; PIKAT-ORDYNSKIY, G.A.; VENKOVA, M.D.; ZHENDRINSKIY, A.P.;
MATVEYENKO, N.V.; GORONETSKIY, M.I.; YEGIZAROV, A.A.;
PECHENKIN, V.V.; SEREGIN, N.V.; KEPP, G.A. YATSENKO, N.N.

Industrial testing of an ejector-type flotation machine for
the flotation of ores. TSvet. met. 36 no.4:7-13 Ap '63.
(MIRA 16:4)

(Flotation—Equipment and supplies)

ZHENDRINSKIY, A.P.,

~~XXXXXXXXXX, A.P.~~ Cand Tech Sci — (diss) ^{cite} "Study of flotation
of coal clinkers in ~~the~~ air-lift pneumatic floatation machines
on the example of the enrichment ^{factory of} ~~plant~~ the Dneprodzerzhinsk
Coke ^{Chemical Plant.} Mos, 1959. 17 pp with ill. (Acad Sci USSR.
Inst of Mining). 150 copies (KL, 38-59, 116)

34

Знаменский, В.И.
BUBLIKOV, A.V.; KLASSEN, V.I.; ZHENDRINSKIY, A.P.; KOPYCHEV, P.A.

Pneumatic flotation machinery. Koks i khim. no.7:6-9 '57.
(MIRA 10:7)

1. Dneprodzershinskiy koksokhimiicheskiy zavod (for Bublikov).
2. Institut gornogo dela Akademii nauk SSSR (for Klassen).
3. Dnepropetrovskiy gornyy institut (for Zhendrinskiy and Kopychev).
(Pneumatic machinery) (Flotation)

ZHENDRINSKIY, A.P.; VISHNEVSKIY, M.A.; BEDRAN', N.G.

Investigating the flotation process on the EF-8 ejection
machine. Izv. DGI 42:309-313 '64. (MIRA 18:11)

HEDRAN', N.G.; GRIGOR'YEV, I.N.; ZHENDRINSKIY, A.P.

Operating conditions of an aerator-ejection machine and its
efficient design. Izv. DGI 42:314-318 '64. (MIRA 18:11)

KLASSEN, Vili Ivanovich, prof., doktor tekhn.nauk; ZHENDRIMSKIY,
Andrey Pavlovich; BERGER, Gennadiy Semenovich; ROMANOVA, L.A.,
red.izd-va; SABITOV, A., tekhn.red.

[Using pneumatic machinery for the flotation of coal] Opyt
primeneniia flotatsionnykh mashin pnevmaticheskogo tipa dlia
flotatsii uglei. Pod obshchey red. V.I.Klassena. Moskva,
Ugletekhizdat, 1959. 60 p. (MIRA 12:5)
(Flotation—Equipment and supplies) (Coal preparation)

ZHENDRINSKIY, I. P. Cand. Med. Sci.

Dissertation: "Diagnostic Difficulties in Cases of Salpingo-Oophoritis, Appendicitis and Extra-Uterine Pregnancy." Central Inst. for Advanced Training of Physicians.
29 Apr 47.

SO: Vechernyaya Moskva, Apr, 1947 (Project #17836)

PA 22/49T52

ZHENDRINSKIY, I. PL

USSR/Medicine -- Ichthyol
Medicine - Pharmacy

Aug 48

"Intramuscular Injection of a Five-Percent
Aqueous Solution of Ichthyol," I. P. Zhendrin'skiy,
Cand Med Sci, Dr V. K. Kozhukhova, 1 1/2 pp

"Tel'dsher: i Akusherka" No 8

Describes best method of administering ichthyol,
giving reasons.

22/49T52

ZHENDRINSKIY, I. P.

"Some Particulars on the Interrelationship of the Appendix, the Right Fallopian Tube and the Ovaries". Akueher i Genkol, No. 1, 1949.
Cand Med Sci First Surgical Chair TsIU, and the Gynecological Department, Central Clinical Hospital Ministry of Means of Communications imeni Semashko. -cl949-.

ZHENDRINSKIY, I. P.

"Trichomoniasis," Gel'dsher i Akusher., No. 12, 1949. Cand. Med. Sci.

ZHENDRINSKIY, I.P., kand.med.nauk

Course of pregnancy in Botkin's disease. Akush. i gin.
no.2: 20-26'63. (MIRA 16:10)

1. Iz kafedry akusherstva i ginekologii (zav. - prof. F.A.
Syrovatko) i III kafedry terapii (zav. - prof. I.A.Kassirskiy)
TSentral'nogo instituta usovershenstvovaniya vrachey.
(PREGNANCY, COMPLICATIONS OF) (HEPATITIS, INFECTIOUS)

ZHENDRINSKIY, Ivan Pavlovich; KAGAN, Naum Pavlovich

[Leucorrhea] Bell. Izd. 3. Moskva, Medgiz, 1958. 21 p.
(LEUCORRHEA) (MIRA 13:8)

L 07440-67 EWP(k)/EWT(m)/EWP(t)/ETI IJP(c) JD/HW
ACC NR: AP6030440 SOURCE CODE: UR/0420/66/000/006/0107/0109

AUTHOR: Lopatin, A. I.; Kas'yan, V. G.; Zhendubayev, V. N.

42
B

ORG: None

TITLE: A method for determining the shape of the workpiece during stamping 18

SOURCE: Samoletostroyeniye i tekhnika vozdushnogo flota, no. 6, 1966, 107-109

TOPIC TAGS: metal stamping, electronic measurement, metal deformation

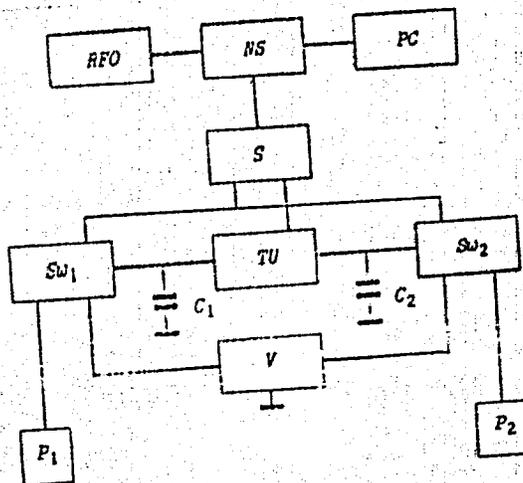
ABSTRACT: One of the important factors in calculating the parameters of high-speed stamping is the shape taken by the blank during the stamping process. The shape of the workpiece may be determined by measuring the time for sequential operation of contact pickups mounted on a single level. When the blank is moving at a high rate of speed (several hundred meters per second) with a small curvature (especially in the initial moment of motion) the problem arises of measuring short time intervals with little difference between them. The pulse-count chronometer with capacitor time transfer shown in the figure is proposed for measurement of these time intervals. A start signal is sent from pickup P₁ through switch Sw₁ to charge capacitor C₁ from DC voltage source V. A signal is simultaneously sent to shaper S which generates a signal closing noncontact switch NS which operates reference frequency oscillator RFO and pulse

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L 07110-67

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counter PC. At this point PC begins to count pulses from RFO. With operation of pickup P_2 , a stop signal is sent through Sw_1 terminating the charging of capacitor C_1 which is charged to voltage ϕ in the time T_1 being measured. At the same time, a signal is sent through switch Sw_2 to charge capacitor C_2 . This capacitor is charged until the voltage on its plates is equal to the voltage ϕ on the plates of capacitor C_1 . At this point the threshold unit TU operates and sends a signal through shaper S to switch NS terminating the pulse counting operation. If the capacitance of C_2 is larger than that of C_1 , the time for charging C_2 will be greater than that required for charging C_1 . Therefore this time interval may easily be measured with high accuracy using a pulse count chronometer with moderate reference frequency. A formula is given for determining the relative error in measurement of short time intervals using this type of instrument. It is found that the error is determined by the time transformation factor. Orig. art. has: 1 figure, 7 formulas.



SUB CODE: 13, 09/ SUBM DATE: none/ ORIG REF: 003

Card 2/2

NUDNER, T.K., dotsent; IZOTOVA, knad. med. nauk; ZHENETL', D. Kh.; PIROZHKOVA,
L.A.; SHKARUPELOV, A.A.; SHMAT'KO, I.T.; YANNIKOVA, G.M.

Echinococcosis of the liver. Uzh. zap. Stavr. gos. med. inst.
8: 30-48 '63 (MIRA 17:7)

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ACCESSION NR: AP4019008

S/0062/64/000/002/0331/0334

AUTHORS: Zhenevskaya, M.G.; Sheremeteva, T.V.; Koton, M.M.

TITLE: Synthesis and polymerization of p-butyl- and p-butyrophenyl methacrylates. Communication 3. Concerning ester structures and their tendency to polymerize

SOURCE: AN SSSR. Izv, Seriya khimicheskaya, no.2, 1964, 331-334

TOPIC TAGS: parabutyl methacrylate polymerization, polymerization, parabytyrophenyl methacrylate polymerization, ester structure, methacrylate phenylmethacrylic ester, substituted phenylmethacrylic ester

ABSTRACT: The purpose of this investigation is to find how the polymerization rate of the above esters is affected by the structure of the substituent. The determination of the polymerization rate of substituted phenylmethacrylic esters was made for the following monomers: p-normal, p-isoprimary, p-tertiarybutylphenylmethacrylates and p-normal, p-isoprimary butyrophenylmethacrylates. Polymerization was carried out at 80C in the presence of benzoyl peroxide (0.3%) and in a nitrogen atmosphere because oxygen inhibits polymerization. It was

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ACCESSION NR: AP4019008

found that esters with the least branched substituent are the slowest to polymerize, probably due to the transmission of the chain (as a result of a hydrogen torn off the alkyl substituent in the benzene nucleus). The readiness of the hydrogen atom to be torn off depends on the structure of the alkyl substituent. The substitution of an acrylic residue for the alkyl residue speeds up polymerization; this is explained by the presence of an electro-negative group $C=O$ in the acyl residue causing a shift of the electron cloud from the double bond toward the substituent, and diminishing the activation energy of breaking the double bond. Orig. art. has 4 figures, 3 formulas, 1 table.

ASSOCIATION: Institut vy*sokomolekulyarnykh soyedineniy AN SSSR (Institute of Highmolecular Compounds AN SSSR)

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